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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,048	07/17/2003	Randy L. Ekl	CM05154H 2270		
22917 75	590 06/28/2005		EXAMINER		
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD			JAIN, RAJ K		
IL01/3RD			ART UNIT	PAPER NUMBER	
SCHAUMBUR	G, IL 60196		2664		
			DATE MAILED: 06/28/2009	DATE MAILED: 06/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/622,048	EKL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Raj K. Jain	2664				
The MAILING DATE of this communication app		orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 M</u>	av 2005.					
	action is non-final.					
,=	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-19 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	·					
9) The specification is objected to by the Examine	r					
10)⊠ The drawing(s) filed on <u>17 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	n-(d) or (f)				
a) All b) Some * c) None of:	priority under oo o.o.o. g 7 To(a)	, (d) 01 (i).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document		on No.				
3. Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •					
application from the International Bureau	PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-15)						
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wejke et al (US005175867A) in view of Rom (US006360264B1), further in view of Crosbie (US 20020085719A1).

Regarding claims 1, and 13, Wejke discloses a method for call handoff in a wireless communications system from a serving cell to neighboring cell. The method comprising the steps of,

-at the base station: receiving a first transmission at a first signal quality from the mobile station (see Fig 4, col 9 lines 23-25, the serving base station receives the first signal quality from a base station);

-receiving a second transmission that indicates a second signal quality at which a second base station is receiving transmissions from the mobile station (see Fig 5, col 9 lines 49-52, the second transmission indicating the second signal quality is received by the neighboring base station or the second base station from the mobile station),

-comparing the first signal quality with the second signal quality (see col 8 lines 43-47, the MSC within a given serving area compares the signal qualities or strengths of the mobiles between different base stations);

-and when the second signal quality is greater than the first signal quality, signaling the second base station to initiate a handoff with the mobile station (see Fig 5, col 8 lines 60-65, col 10 lines 20-30, the MSC compares and determines the strength or quality of the second signal and than initiates a handoff order to the second base station if the second signal quality is greater than the first).

Wejke discloses a mobile assisted handoff within a cellular communications system, however, Wejke fails to disclose access points performing the handoff within a communications system.

Rom discloses access points 13 for inter-cell communications in order to maintain connectivity of nodes in a wireless system (Fig 1).

Access points or base stations serve to provide a reassociation process without losing connectivity between serving cells in a wireless communications system by relaying packets into and out of a given serving area without break in service to the user, mobile or node (see Figs 1, 2A, 3, col 4 lines 38-64). Because an access point is analogous to a base station, the terminology with respect to cells and sectors is the same as with respect to voice systems. Access points communicate with other access points when initiating a handoff and therefore do not require the additional functionality of a MSC for handoff procedures as is required within typical base station systems.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize access points instead of possibly base stations for handoff purposes as taught by Rom within Wejke thereby reducing or eliminating the need for MSC's to initiate a handoff request procedure.

Wejke discloses a mobile assisted handoff within a cellular communications system.

Rom discloses access points 13 for inter-cell communications in order to maintain connectivity of nodes in a wireless system (Fig 1).

However, Wejke and Rom fail to disclose a dissociation message being sent to the mobile station from the second access point as if it were originated from the first access point.

Crosbie discloses a roaming server that supports the reassignment of session data parameters from one access point to another so that the mobile device can use the same parameters for communicating to a new access point (see abstract, Figs 3,4, paras 0053-0054). The reassignment of parameters without the mobiles knowledge of the serving access points provides for a seamless transition or handoff of mobile from one access point to the next while maintaining data parameters. The data parameters received by the mobile are received via the original or first serving access point that the second access point transmits and therefore the mobile is receiving the message as if it were transmitted by the first access point. This technique well known in the arts called "spoofing" once again provides a seamless handoff process in wireless communications.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the "spoofing" technique as taught by Crosbie within Wejke so as to allow for a seamless transition or handoff of mobile from one access point to the next while maintaining data parameters.

Regarding claim 2, Wejke discloses wireless communications which is packet oriented and handoff initiation is performed by the second base station or access point when the signal quality is higher than the predetermined threshold, in a convention system packets are kept in queue or buffer until ready for next transmission and therefore inherent part of the system. (see Fig 5, col 8 lines 60-65, col 10 lines 20-30, the MSC compares and determines the strength or quality of the second signal and than initiates a handoff order to the second base station if the second signal quality is greater than the first).

Regarding claims 3 and 12, Wejke discloses second transmission from the second base station or access point (see col 9 line 50).

Regarding claims 4, 8, Wejke discloses receiving a third transmission that indicates a third signal quality at which the mobile station is receiving transmissions from the second access point (see col 10 lines 25-30, the third signal is handoff control to the mobile from the second base station).

Regarding claim 5, Wejke discloses the step of signaling performed when the third signal quality exceeds a threshold (see col 10 lines 20-25).

Regarding claim 6, Wejke discloses third transmission further indicating a fourth signal quality at which the mobile station is receiving transmissions from the first access point (see col 2 lines 40-55, the fourth signal indicating disassociation with current base station once handoff is initiated).

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Regarding claim 7, Wejke discloses third signal from second base station to mobile, which it has accepted for handoff, and forth signal is weak signal from original serving base station to mobile for disassociation (see col 2 lines 40-55).

Regarding claim 14, Wejke discloses first and second signal qualities received from first transmission from the mobile (see col 9 line 25-30), and third signal is received from second transmission from second base station (see col 10 line 20-25).

Claims 15-17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wejke et al (US005175867A) in view of Rom (US006360264B1).

Regarding claim 15, Wejke discloses a method for call handoff in a wireless communications system from a serving cell to neighboring cell. The method comprising the steps of,

-receiving a first transmission at a given signal quality from the mobile station (see Fig 4, col 9 lines 23-25, the serving base station receives the first signal quality from a base station);

-receiving a second transmission that indicates a second signal quality at which a second base station is receiving transmissions from the mobile station (see Fig 5, col 9 lines 49-52, the second transmission indicating the second signal quality is received by the neighboring base station or the second base station from the mobile station),

-signaling the first access point or base station with the given signal quality in which the transmission was received from the mobile station when the given signal

quality exceeds a predetermined threshold (see 202 Fig 4, col 9 lines 25-30, the base station monitors and determines if the signal exceeds a predetermined threshold);

and sending a transmission to the mobile station to disassociate with the first access point when a handoff trigger is received within a predetermined time period from the first access point (see Fig 4, col 9 lines 30-35, the handoff request is sent from the neighboring access point once the predetermined threshold is exceed see col 10 lines 5-30).

Wejke discloses a mobile assisted handoff within a cellular communications system, however, Wejke fails to disclose access points performing the handoff within a communications system.

Rom discloses access points 13 for inter-cell communications in order to maintain connectivity of nodes in a wireless system (Fig 1).

Access points or base stations serve to provide a reassociation process without losing connectivity between serving cells in a wireless communications system by relaying packets into and out of a given serving area without break in service to the user, mobile or node (see Figs 1, 2A, 3, col 4 lines 38-64). Because an access point is analogous to a base station, the terminology with respect to cells and sectors is the same as with respect to voice systems. Access points communicate with other access points when initiating a handoff and therefore do not require the additional functionality of a MSC for handoff procedures as is required within typical base station systems.

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Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the "spoofing" technique as taught by Crosbie

within Wejke so as to allow for a seamless transition or handoff of mobile from one access point to the next while maintaining data parameters.

Regarding claim 16, Wejke discloses that the threshold values for each access point may be varied and may be more than one (see col 9 lines 56-67).

Regarding claims 17, Wejke discloses messaging as part of the control function sent in conjunction with signaling between mobile and base stations (see col 4 lines 52-56, col 7 lines 55-65).

Regarding claim 19, Wejke discloses wireless communications which is packet oriented and handoff initiation is performed by the second base station or access point when the signal quality is higher than the predetermined threshold, in a convention system packets are kept in queue or buffer until ready for next transmission and therefore inherent part of the system. (see Fig 5, col 8 lines 60-65, col 10 lines 20-30, the MSC compares and determines the strength or quality of the second signal and than initiates a handoff order to the second base station if the second signal quality is greater than the first).

Response to Arguments

Applicant's arguments with respect to claims 1-8, 12-19 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

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June 15, 2005

WELLINGTON CHIN "ERVISORY PATENT EXAMINE"